

File name:

CBB61Electrical packagings
AC Motor running capacitorfile-and-file
system

WD-AP-24

Page imes

07/01

1. Scope:

This specification applied to capacitor for type CBB61 Metallized Polypropylene Film AC Motor running Capacitor.

2. Operation Temperature:

- 40°C ~ + 85°C

3. Capacitance Range:

1uF ~ 10 uF

4. Capacitance Tolerance:

±5%(J)、±10%(K)、±20%(M)

5. Rated Voltage:

250VAC、300VAC、350VAC、400VAC、450VAC

6. Rated Frequency:

50 ~ 60 Hz

7. Class of safety protection:

P0

8. Class of operation:

C


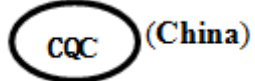
9. Life expectancy:

3000 h

11. Type of termination

Wire termination,PVC single core cable,Flat quick connectors

12. Approvals File No

Related Standard		Certificate No	Approved Monogram
CQC (S3)	GB/T3667.1 - 2005	CQC18006196469	
CQC (S0)	GB/T3667.1 - 2005	CQC18006196468	

File name:

CBB61Electrical packagings
AC Motor running capacitorfile-and-fil
e system

WD-AP-24

Page imes

07/01

13. Winday Part No.:

□□□□

1

(tape)

□

2

(Internal use)

□□□

3

(capacitance)

□

4

(tolerance)

□□□□

5

(Box Type)

□

6

(Ac)

□

7

(lead forming)

□□

8

(lead pitch)

□□

9

(lead length)

13-1 tape:

Code	SMCB
Tape	CBB61

13-2 Internal use

13-3 Capacitance:

Code	105	505	805	106
Capacitance	1uF	5uF	8uF	10uF

13-4 Tolerance:

Code	J	K	M
Tolerance	±5%	±10%	±20%

13-5 BOX TYPE:

Code	TB39	TB30	TB20	TB35
Size(mm)	38(L) × 26(H) × 16(T)	38(L) × 28(H) × 18(T)	38(L) × 30(H) × 20(T)	48(H) × 30(H) × 20(T)
Code	TB31	TB40	TB9	TB59
Size(mm)	48(L) × 32(H) × 22(T)	48(H) × 37(H) × 26(T)	58(H) × 38(H) × 26(T)	37(H) × 28(H) × 18(T)

13-6 A-AC

File name:

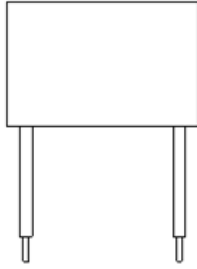
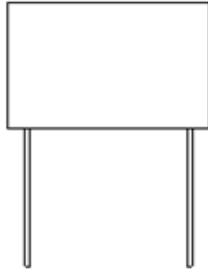
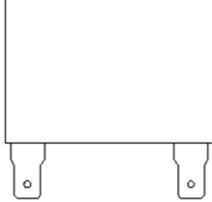
CBB61Electrical packagings
AC Motor running capacitorfile-and-fil
e system

WD-AP-24

Page imes

07/01

13-7 Lead forming:

Code	PVC Thread	CP Thread	Terminal
Lead Forming			

13-8 Lead Pitch: Showing the capacitor lead pitch, For example:

Code	30	38	40	50
Pitch(mm)	30mm	37.5mm	40mm	50mm

13-9 Lead length: Showing the capacitor lead Length, For example:

Code	30	40	50	60	70	80	90
Length(mm)	30mm	40mm	50mm	60mm	70mm	80mm	90mm

14. Specifications (IEC60252-1&GB/T3667.1-2005)

No	Test items	Performance	Test Method
14-1	Withstand voltage (Between Terminals)	Shall be no abnormality	Rated Voltage \times 1.414 \times 175% of 60 sec(VDC).
	Between terminal and Enclosure	Shall be no abnormality	UR \times 200%+1000VAC, For 60sec.
14-2	Insulation resistance (Between Terminals)	IR \geq 3,000 M Ω \div (C) μ F	Measured at 100 \pm 15VDC, For 60sec / 25 $^{\circ}$ C
14-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25 $^{\circ}$ C
14-4	Dissipation Factor	\leq 0.002 (0.2%)	1KHz, 1Vrms Max. at 25 $^{\circ}$ C

File name:

CBB61Electrical packagings
AC Motor running capacitor

file-and-file system

WD-AP-24

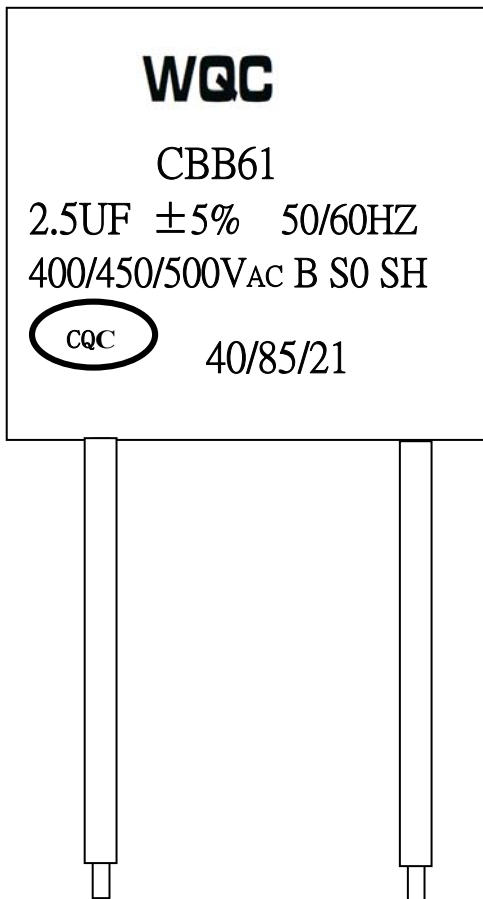
Page
imes

07/01

14-5	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1sec
14-6	Bending Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 0.5 Kg 2. Bending Time : 4 x 90° in 5sec
14-7	Vibration	(1) Appearance : No Visible Damage (2) Contact : Normal	a. Frequency change : 1min. per cycle 10~55~10Hz b. Vibration distance : 1.5mm c. course: X、 Y、 Z (axis) d. Time : 2h / axis (6h in total)
14-8	Solder-ability	1. Appearance : No Visible Damage 2. Covering an area of > solder 95%	Soldering Peocess 1.Capacitor preheating temperature of T < 120 °C 2.Preheating time capacitor t < 5 min Single wave soldering 1.Solder temperature: 270±5°C 2.Solder time: 2±0.5sec
14-9	Humidity Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : ≤ ±0.5% (4) Insulation Resistance: ≥ 50% of the rated value (5) DF (tan δ) ≤ 0.002	a. TEST TEMPERATURE: 40°C ± 2°C b. RELATIVE HUMIDITY: 90 ~ 95% c. Test Times: 500±8 HRS
14-10	Heat Resistance (Continuous)	(1) Appearance : No Visible Damage (2) DF (tan δ) ≤ 0.002 (3) Capacitance Change : ±3% of The Initial Value (4) Insulation Resistance: ≥ 50% of the rated value	a. Test Voltage : 125% of The Rated Voltage tset. b. Test Temperature: 85°C±2°C c. Test Times: 600H

WQC Dongguan Weiqing Electronic Co., Ltd.		Date of production	2013-10-10	Edition	08
File name:	CBB61Electrical packagings AC Motor running capacitor	file-and-file system	WD-AP-24	Page imes	07/01

16. Marking:



WQC	WEIQING CO. LOGO
CBB61	METALLIZED POLYPROPYLENE FILM
2.5UF	CAPACITANCE
±5%	CAPACITANCE TOLERANCE
50/60Hz	Frequency
400-450VAC	FORAC VOLTAGE
S0	Class of safety protection
B	Certification level B
SH	Self-healing nature of
CQC	Authentication mark
40/85/21	G-Working Lowest Temperature (- 40℃) M-Working highest Temperature (+85℃) F- Working Times (21days)

17.Storage conditions and duration

Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

Capacitor at a temperature within the range 20 ~ 25 °C, humidity less than 50% of the state of storage for one year.